Publication of Patent Application

Showa 55-168359

Practically Novel Design Registration Application

Showa 54 May 21st

Patent Office Chief

1. Design Name

Fog-Proof Mask

2. Inventors

Address: The same as the inventors of the practically novel design applicants

3. Practically novel design registration applicants

Address: Tokyo-to, Matsunami - ku, Myamae 3 chome, 13 ban, 14 go

Name: Koba, Hidefumi

(Country)

4. Representative

120

Address: Tokyo - to, Ashitatsu - ku, 4 chome, 9 ban, 33 go Toya Building

Seal

Name: (6821) 168359

5. Registration of the attached documents

(1) Detailed description of the invention	1 copy transmitted
(2) Figures	1 copy transmitted
(3) Application description copy	1 copy transmitted
(4) Power of attorney	1 copy transmitted

Sealed and verified

54 066928

JP 55-168359

[Note: Very poor copy quality, almost illegible. Names, addresses, company names and brand names are translated in the most common manner. Japanese language does not have singular or plural words unless otherwise specified by a numeral prefix or a general form of plurality suffix.]

Detailed description of the Invention

1. Name of the Invention

Fog-Proof Mask

2. Scope of the claims of the practically novel design

A fog-proof mask that is a mask body, which has a transparent viewing window, where an anti-fogging agent is coated on the transparent viewing window, and on this coated surface a film is adhered.

3. Detailed Explanation of the Design

In the case of respiration (breathing) masks used in people operating in locations where there is a generation of toxic gases, like rescuers or coal miners, etc., miners, at the time when there are worn on and used, there are many instances when fogging of the transparent viewing window occurs through the breathing of the person who wears them, and the transparent viewing becomes difficult.

In order to eliminate such drawback, in the past, immediately prior to using the respiration mask, it has been introduced into a container and an anti-fogging agent has been coated on the transparent viewing window, and then the mask has been put on. However, in the case of such fog-proofing method because of the fact that manual handling is necessary for the coating of the anti-fogging agent, it is not appropriate for using and wearing in emergency situations, and it is not used in emergency situations. Also, immediately after the anti-fogging agent has been coated it has exceeding flowability properties, and the anti-fogging agent flows quickly and falls, and because of that there has been the drawback point that it has been said that the anti-fogging effect can be sustained for only a short period of time.

The present design (invention) is an n invention that suggests an anti-fogging mask in order to solve the above described previous technology drawback points.

Here below, based on the presented diagrams, the practical implementation examples of the present design are explained, and there are the following: (1) is the mask body, (20 is the transparent viewing window where a transparent plastic plate or a glass plate are placed, (3) is the breathing tube that introduces oxygen or purified air in the inside of the

mask body (1), (4) is the breathing tube that expels to the outside of the mask body (1) the air that has been breathed by the person wearing on the mask body (1), and the speaking plate (5), (6) is the anti-fogging agent coated on the inner surface of the transparent viewing window (2), (7) is the resin film that is adhered onto the coated surface of the anti-fogging agent (6).

In the case of the anti-fogging mask that has a structure formed according to the above described, it can be stored and kept in a state where the resin film (7) has been adhered onto the anti-fogging agent (6) coated on the inner surface of the transparent viewing window (2), and in an emergency situation etc., the film (7) can be peeled off and removed and the mask can be used and wom on.

According to the present invention, besides the mask body that is shown according to the above-described practical example, as long as it is mask body that has a transparent viewing window, it can be used in any inside water, or on land, etc., locations. Also, besides respiration devices, it can be appropriately used in other types of applications. Also, regarding the anti-fogging agent, its coating is not limited to only the inner surface of the transparent viewing window, and it is also possible to be coated on the outer surface, or on both the inner and the outer surfaces and these are good options. Regarding its coating, besides the method whereby the anti-fogging agent is coated on the transparent viewing window and after that the film is adhered, it is also a good option if the method is used where it is coated on the film material and this film is adhered so that its coated surface is pressed against the transparent viewing window.

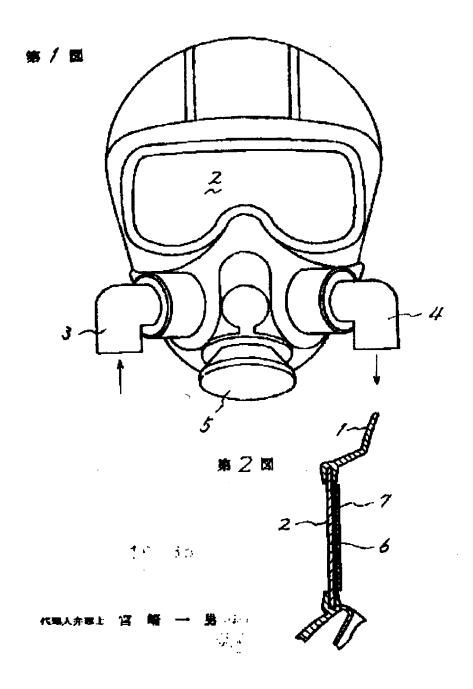
The present invention has a structure as described here above, and at the time of the use of the mask, only the film is removed and it can be used and because of that even in emergency situations it is ready to be used within a satisfactory time period and thus is appropriate to use in emergency cases. Also, a film material is adhered onto the coated surface of the anti-fogging agent and because of that during the storage of the mask the anti-fogging agent absorbs moisture and the decrease of the anti-fogging effect is prevented and not only that but also the scratching or damage of the surface coated with the anti-fogging agent is prevented and the dispersing of the anti-fogging agent is prevented. Also, at the time when the film is adhered the anti-fogging agent is firmly adhered onto the transparent viewing window and because of that even when the film is removed it does not easily flow and fall, and compared to the case where, according to the previous technology, the anti-fogging agents is sprayed on the transparent viewing window prior to the use of the mask, it is possible to maintain the anti-fogging effect for prolonged period of time, etc., various results are achieved.

4. Brief Explanation of the Figures

Figure 1 represents a front view of the anti-fogging mask according to the present invention. Figure 2 represents an enlarged sectional view diagram of the transparent viewing window of the same mask.

	mask body, (2) anti-fogging agent, (7)	transparent viewing window,resin film.
Patent Assignee	: Koba, Hidefumi	
Translated by Ali	bena Blagev ((651) 735-1461 (h)	, (651) 704-7946 (w))

02/28/05



168359





(4,000円)

実用新案登録願

昭和54年5 H21 H

殿 特許庁長官

オ 案 の 名 称

英用新案登録出類// フリガナ 名(名称)

(国 株)

住

添付書類の目録

眀

- 1. 岩影の名称 防傷マスク
- 2. 実用新架登録請求の範囲

誘視態を有するマスク体において、透視態に防 無剰を整布し、その勢布面にフィルムを貼り付け で成る防暴マスク。

3、巻祭の幹細な説明

火災明場に出動する救助防員や炭坑などで働く 坑夫。その他有得ガスが発生する現場で作業する 者などが着用する呼吸マスクは、着用時に看用者 の呼気により透視窓が乗り、透視が依轄になるこ とが多いものである。

このような欠点を除去するため、従来は呼吸マスクを使用する声前に、容器に入っている防患剤を選択なられていたが、このような所量方法では、防器剤の整布に手間取るため、緊急の着用に間に合わず、非常に不便であり、また防器剤を整布した直後は非常に流動性があり、防器剤が早く流れ落ちるため、防器効果の持続が短いという欠点があった。

168359

公開実用 昭和55—168359

本者祭は、上記従来の諸欠点を解消しうる防機 マスクを根供しようとするものである。

以下図而にもとずいて本素条の実施例を説明すると。(1)はマスク体で、予明なブラスチック板やガラス板をはめた透視窓(2)と、マスク体(1)内へ酸素や清浄な空気を供給する吸気管(3)と、マスク体(1)の着用者の呼気をマスク体(1)外へ排出する呼気管(4)と、伝真板(5)とを有する。(6)は透視窓(2)の内の筋管剤。(7)は、面に能布した防管剤(6)の塗布面に貼り付けた樹脂・(1)を取り入れるである。

上記の構成より成る防力マスクは、透視窓(2)の内面に単布された防機剤(6)に樹脂フィルム(7)を貼り付けた状態で保管して耐き、緊急使用の場合などにフィルム(7)を網難して着用する。

本考察においては、上記楽施例に示したマスク体のほか、透視窓を有するマスク体であれば、水中、障上を問わずどのような場所で使用するものも外用することができ、また呼吸器以外の各种用途に使用するものも採用することができる。また、防御額は、透視窓の内面に限らず、外面または



内外面面に簡布してもよく、その整布は、透視窓に発布してからフィルムを貼り付けるほか。フィルムに挙布し、そのフィルムの整布面を透視窓に 押しつけるようにして貼り付けてもよい。

4. 関 面 の 簡 単 な 散 助

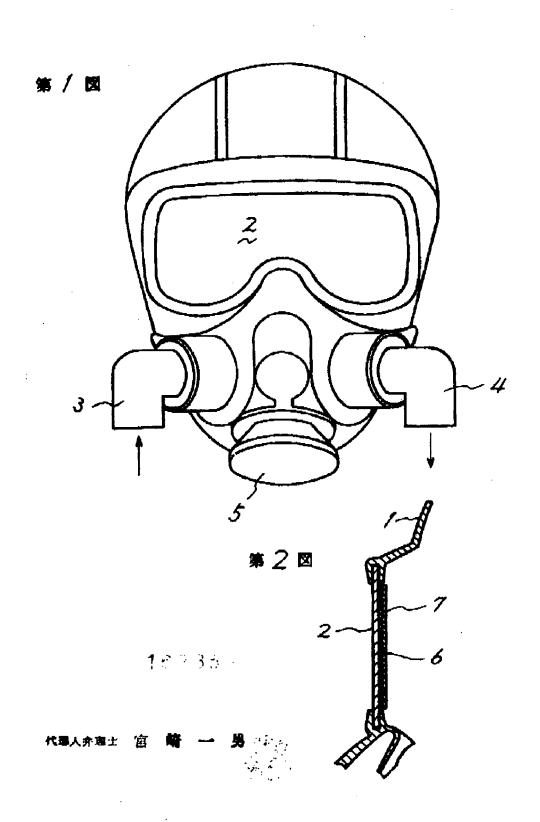
無1図は本差家に係る防備マスクの正面図、集2 図は同マスクの透視窓の拡大断面図である。

公開実用 昭和55—168359



(1) …マスク体。(2) … 添視器。(6) … 防熱剤。(7) …樹脂フィルム。

実用新家登録物 木 場 秀 文 代理人 弁理士 宮 崎 一 男



This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:
☐ BLACK BORDERS
☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
☐ FADED TEXT OR DRAWING
☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
☐ SKEWED/SLANTED IMAGES
☐ COLOR OF BLACK AND WHITE PHOTOGRAPHS
☐ GRAY SCALE DOCUMENTS
LINES OR MARKS ON ORIGINAL DOCUMENT
☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
Потикв.

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.